



# ***Computer Security Servers for the DOE Complex***

**Presented By**

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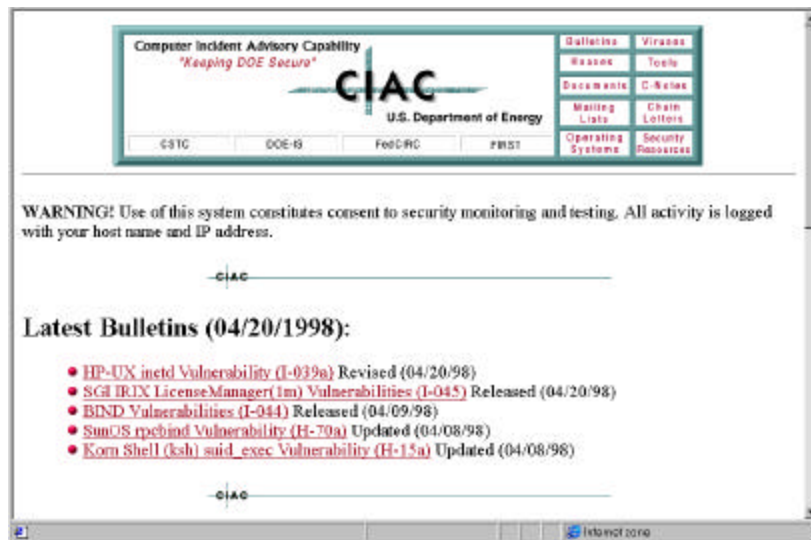
**St. Petersburg, FL**

**UCRL-MI- 129569**

# Multiple Information Servers Are Available For DOE Security.....

- **CIAC (<http://ciac.llnl.gov>)**
  - Bulletins
  - Virus Database
  - Security Documents
- **DOE-IS (<http://doe-is.llnl.gov>)**
  - Security Resources
  - DOE Developed Resources
  - User Needs
- **DOE Secure (<https://vap.llnl.gov>)**
  - VAP vulnerability database
  - Security Contact List
  - Documents in process
  - Bill and Rose's bad list

# CIAC: The Latest Computer Protection Information



<http://ciac.llnl.gov>  
anonymous server

- CIAC Bulletins
- Patch information
- Virus database
- Hoax and chain letter information
- Security documents
- Security mailing lists
- Tools (SPI, NID)

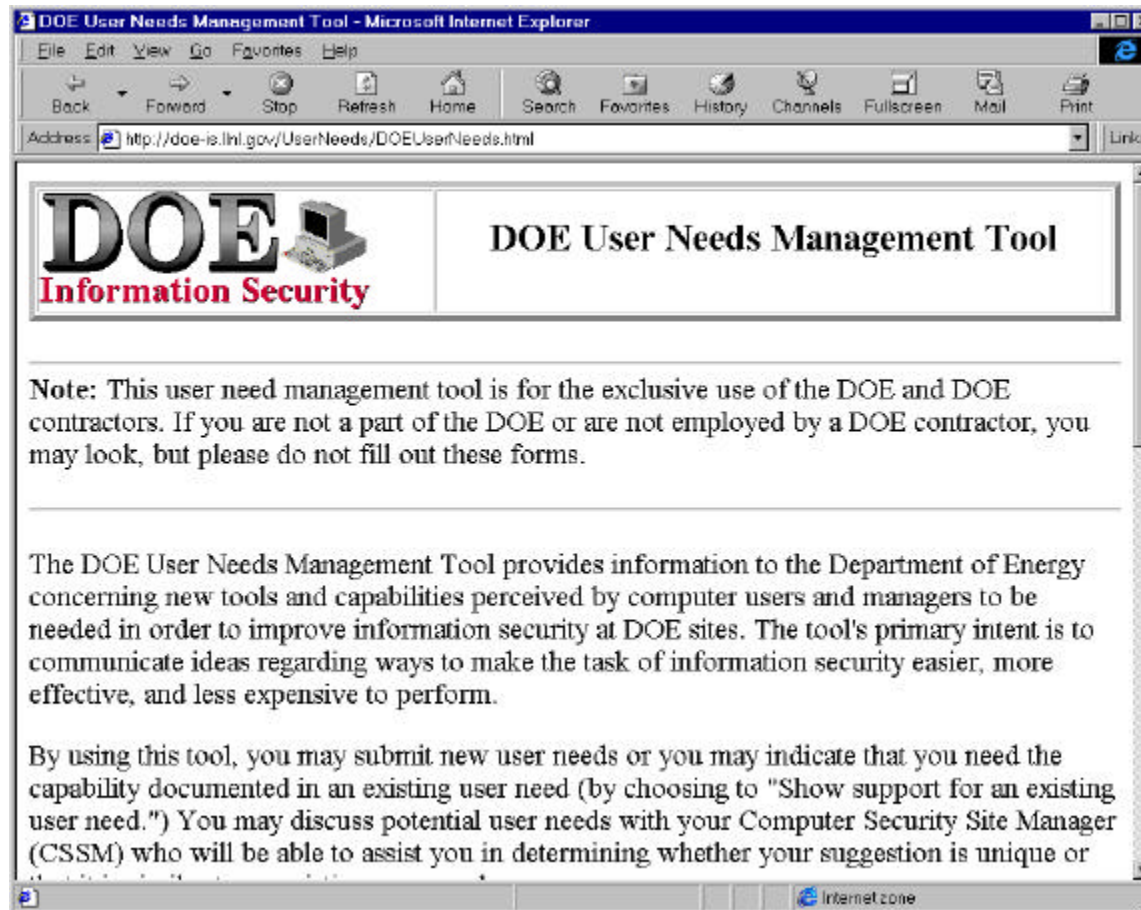
# DOE-IS: Tools And Resources .....



<http://doe-is.llnl.gov>  
anonymous server

- Find information security related tools
- Advertise and distribute resources you have developed (tools, documents, tutorials, etc.)
- Tell DOE what you need (User Needs Management Tool)

# Let DOE Know What You Need.....



**Simple, web based form.**

**Give needed feedback to DOE about what is needed to improve operations and security in the field.**

# DOE Secure: A Server For Protected Resources

(We need a logo.) ↓

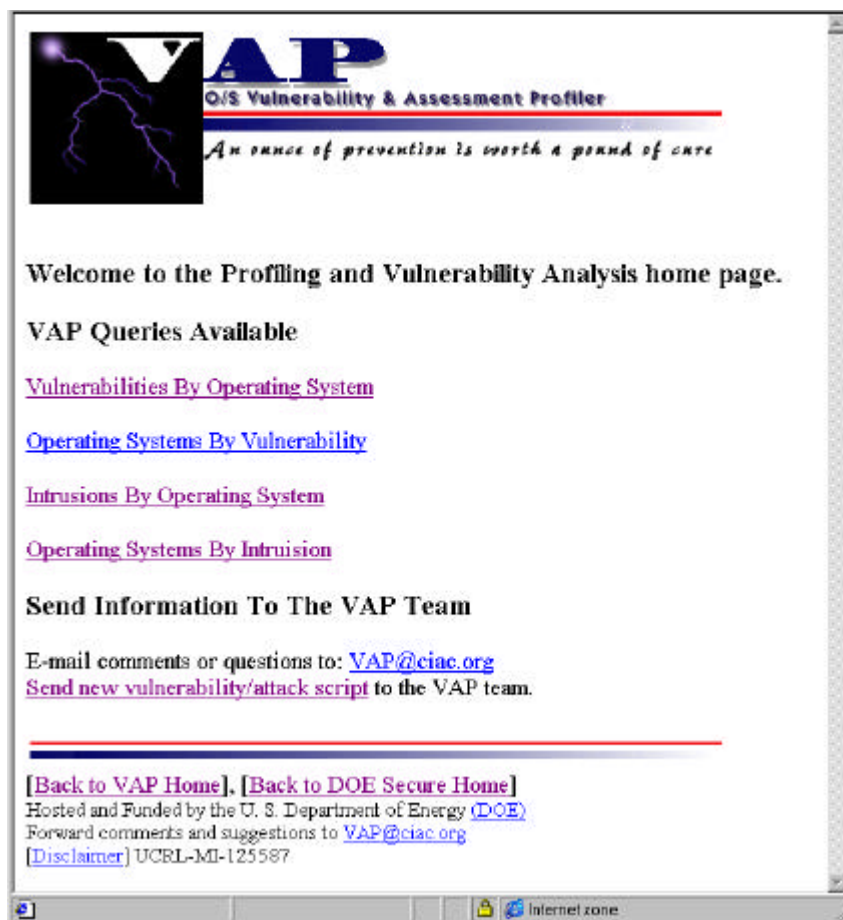


<https://vap.llnl.gov>  
128 bit domestic encryption  
username/password

What else would you like to see here?

- The VAP Vulnerability Database
- Security Contacts List
- Bill and Rose's Bad List
- Draft documents for review

# VAP Contains Vulnerabilities And Intrusions



- **Vulnerabilities include**

- Vulnerable systems
- Descriptions
- Bulletins
- Patch information
- Work arounds

- **Intrusions include:**

- Attack scripts
- Descriptions and analysis.

# The User List Doubles As The Security Contacts List

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- The DOE Secure user database contains contact information for all DOE security officers.
- Quickly find out who to talk to at different sites.
- Quickly generate mail, phone, and e-mail lists for different levels of security officer (CSSOs, CPPMs, etc.).



# Bill And Rose's Bad List Contains Attacking Sites

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- The list is generated from the CIAC database of current attacking sites.
- The list indicates what IP addresses that current attacks appear\* to be coming from.
- Use the list to detect for related attacks and to block current attacks.

\*Note: Inclusion on this list does not mean that a site is bad, only that attacks appear to be coming from that site. The site may be compromised or its address may be spoofed.

# Access To DOE Secure Has Some Security Requirements

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- You must use a domestic version of a web browser that has 128 bit SSL encryption.
- You must have a username and password on the system.
- Cookies must be enabled.
- You must quit your browser after using the site to delete the saved username and password.
- You must set your browser to not cache to disk any of the encrypted pages (IE) or empty the disk cache before quitting (Netscape).

# Account Creation Authority Is Local

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- Accounts are created by a hierarchy of sysops to spread the work around.
- Maintaining a single account gives access to DOE Secure, VAP, and maintains the security contacts lists.
- Access by non-DOE individuals will be on a case by case basis.



# **Account Creation Is Simple** .....

- **Get a signed user statement (on the home page).**
- **Put the name, username, and password on the web based form.**
  - The new user can then connect and add or update the contact information (phone, address, e-mail, etc.).
- **Give the user access to any needed services (VAP) by checking boxes.**

# VAP Access Requires A Second Step

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- There is a second user statement for VAP access dealing with protection of the VAP data.
- An account authorizer can then give access to the vulnerabilities or to the vulnerabilities and attack scripts.
  - Access to vulnerability information, including patches and workarounds should be available to most DOE security officers.
  - Access to attack scripts should be reserved for those who need to know how a breakin occurs.

# Use These Resources To Make Your Life Easier

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- **Encourage all people at your sites to use the CIAC and DOE-IS public servers.**
  - Up-to-date security bulletins.
  - Use the User Needs page to get needs and good ideas to the people who can do something about it.
  - Get credit for your tools and reports by putting them on DOE-IS.
- **Give your computer security managers access to DOE Secure.**
  - VAP
  - Contacts lists.

Any ideas for a DOE Secure logo???